

What is claimed is:

1. A subassembly for a cooling package for use in a combine, comprising:
a radiator having an upstream face, a downstream face, a top, a bottom, and two
sides; and
a charge air cooler having an upstream face, a downstream face, a top, a bottom,
and two sides;
wherein one side of the radiator is connected to one side of the charge air cooler
in order to form a seal between the radiator and the charge air cooler.

2. The subassembly of claim 1, wherein the connected sides of the radiator
and the charge air cooler have extended lips and the connected sides are connected by
bolting the extended lips together.

3. A cooling package for use in a combine, comprising:
a frame having walls that define an opening, each wall having an inner surface;
a flange attached to the inner surfaces of the walls, the flange extending inwardly
into the opening;
a radiator having a front, a rear, a top, a bottom, and two sides;
a charge air cooler having a front, a rear, a top, a bottom, and two sides;
one side of the radiator being connected to one side of the charge air cooler in
order to form a subassembly, the subassembly having a face with a perimeter;
the subassembly being mounted in the opening of the frame so that the perimeter
of the face seals against the flange.

4. The cooling package of claim 3, wherein the connected sides of the
radiator and the charge air cooler have extended lips and the sides are connected by
bolting the extended lips together.

5. The cooling package of claim 3, wherein the seal between the perimeter of
the face of the subassembly and the flange comprises foam between the perimeter and the
flange.

6. A method of manufacturing a cooling package for use in a combine,
comprising the steps of:

providing a frame having walls that define an opening, each wall having an inner
surface;

5 attaching a flange to the inner surfaces of the walls so that the flange extends
inwardly into the opening;

providing a radiator having a front, a rear, a top, a bottom, and two sides;

providing a charge air cooler having a front, a rear, a top, a bottom, and two sides;

10 connecting one side of the radiator to one side of the charge air cooler to form a
subassembly with a face having a perimeter; and

mounting the subassembly into the opening of the frame so that the perimeter of
the face of the subassembly seals against the flange.

7. The method of claim 6, wherein the connecting of the one side of the
radiator and the one side of the charge air cooler is releasable and the connecting is done
with nuts and bolts.

8. The method of claim 6, further comprising attaching strips of foam to the
flange in order to ensure a positive seal between the perimeter and the flange.